

Limiter Chip

AAS2506

Product Specification

V1.0

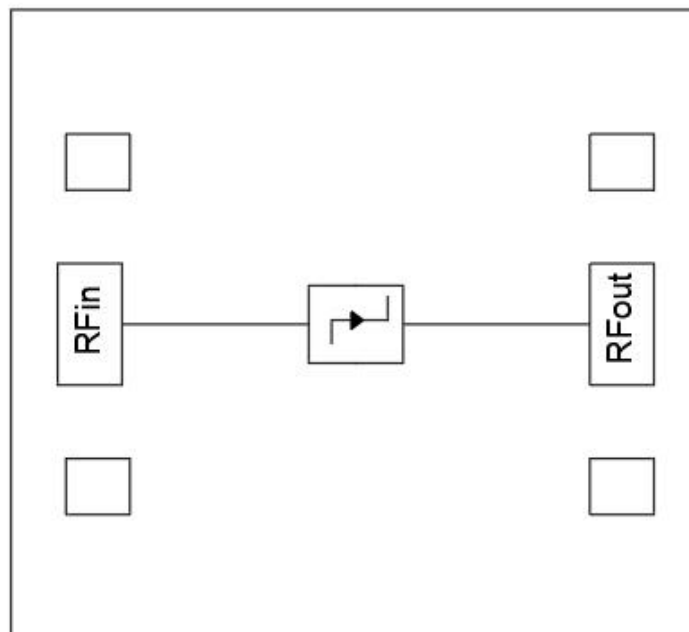
1. Product Features

- Frequency Range: 32~38 GHz
- Insertion Loss: 0.35 dB
- Limiting Level: 15.5 dBm
- Power Handling: 10 W (pulse width 4 μ s, duty cycle 40%, TA = +85 °C)
- Chip Dimensions: 0.85 mm \times 0.775 mm \times 0.1 mm

2. Functional Description

The AAS2506 is a limiter chip operating at 32~38 GHz, featuring an insertion loss of 0.35 dB and a limiting level of 15.5 dBm. It supports a power handling capability of 10 W under conditions of TA = 85 °C, pulse width 4 μ s, and 40% duty cycle. The chip features 50 Ω port impedance and is grounded via backside metallization.

3. Block Diagram



4. Typical Applications

Suitable for applications including communications and radar systems.

5. Electrical Performance Parameters

5.1 RF Characteristics

Unless otherwise specified, all electrical characteristics are measured under small-signal conditions with $P_{in} = -30$ dBm, $T_A = +25$ ° C, and a 50Ω system.